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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE 9909 Mark E. McDonald 42P16461 07/23/2003 10/625,950 **EXAMINER** 8791 7590 09/09/2005 **BLAKELY SOKOLOFF TAYLOR & ZAFMAN** NGUYEN, TUAN N 12400 WILSHIRE BOULEVARD PAPER NUMBER ART UNIT SEVENTH FLOOR LOS ANGELES, CA 90025-1030 2828

DATE MAILED: 09/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
Office Action Summary	10/625,950	MCDONALD, MARK E.
	Examiner	Art Unit
	Tuan N. Nguyen	2828
The MAILING DATE of this commu	nication appears on the cover sheet w	
Period for Reply A SHORTENED STATUTORY PERIOD F WHICHEVER IS LONGER, FROM THE M - Extensions of time may be available under the provision: after SIX (6) MONTHS from the mailing date of this commodified to the commodified state of the commodifie	MAILING DATE OF THIS COMMUNI s of 37 CFR 1.136(a). In no event, however, may a munication. tatutory period will apply and will expire SIX (6) MON y will, by statute, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) file	ed on <u>07/23/2003</u> .	
2a) ☐ This action is FINAL .	2b)⊠ This action is non-final.	
3) Since this application is in condition	for allowance except for formal mat	ters, prosecution as to the merits is
closed in accordance with the pract	ice under <i>Ex parte Quayle</i> , 1935 C.D	D, 11, 453 O.G. 213.
Disposition of Claims	•	
4)	is/are rejected. objected to.	
Application Papers		
9)☐ The specification is objected to by the	ne Examiner.	
10) The drawing(s) filed on is/are	: a) ☐ accepted or b) ☐ objected to	by the Examiner.
	- · · · · · · · · · · · · · · · · · · ·	(s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
2. Certified copies of the priority3. Copies of the certified copies	documents have been received. documents have been received in A of the priority documents have been onal Bureau (PCT Rule 17.2(a)).	Application No received in this National Stage
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (F 		Summary (PTO-413) s)/Mail Date

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05)

Paper No(s)/Mail Date _

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

5) Notice of Informal Patent Application (PTO-152)

6) Other: ____.

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or non-obviousness.
- 2. Claims 1-4, 8-12, 15-17, 21-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dijaili et al. (US 6347106).

With respect to claims 1, 2, 8, 9, 16, 17 Dijaili et al. '106 discloses a semiconductor laser having least one anti-reflective layer having admittance or reflective index between that of a gain and an adjacent media (Fig 3A: 100-107). The claim further requires an absentee layer having index of refraction greater than gain media having a thickness parameter. Dijaili et al. ' 106 further discloses an absentee layer of (Si) (Col 5: 55-67) having an index of refraction greater than gain media and having a thickness corresponding to a number of quarter waves (Col 3: 20-25)(Col 6: 1-5). It has been held that where the general conditions of a claim are disclosed in the prior art, disclosing the optimum or workable ranges involves only routine skill in the art, in this

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case the thickness of the absentee layer meeting a given parameter to produce the half-wave. In re Aller, 105 USPQ 233. Since claims 8,9, 16 recite the same or identical elements/limitations it

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is inherent to use patents ('106) to recite the method of mitigate reflection, product by process.

With respect to claims 3, 10, 11, 21 Dijaili et al. '106 discloses the gain media comprises

InGaAsP (Col 5: 29-30).

With respect to claims 4, 12, 22 (Col 2: 54-65) (Col 3: 1-5) discloses the dielectric layers

comprises Ta2O5, SiO2, and absentee layer comprises Si (Col 5: 55-64).

With respect to claim 15, (Col 7: 27-28) adjacent media comprises air or reaction of

oxygen:

Allowable Subject Matter

3. Claims 5-7, 13, 14, 18-20 objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims. The references of the record fail to teach or suggest:

Claims 5,6, 13, 14, 19, 20:

The absentee layer has a thickness corresponding to 1-7 or 3-4 half-waves.

Claims 7, 18:

The adjacent media comprises air.

Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan N Nguyen whose telephone number is (571) 272-1948. The examiner can normally be reached on M-F: 7:30 - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harvey Minsun can be reached on (571) 272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tuan N. Nguyen

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